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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/681,871	10/08/2003	Mark Sonderegger	NOR-027 (16109RO)	7384

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EXAMINER	
NGO, HUNG V	

ART UNIT	PAPER NUMBER
2831	

DATE MAILED: 12/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/681,871	SONDEREGGER ET AL.	
	Examiner	Art Unit	
	Hung V. Ngo	2831	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *03-03-04*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-16* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☒ Claim(s) *15 and 16* is/are allowed.

6)☒ Claim(s) *1-7 and 10-14* is/are rejected.

7)☒ Claim(s) *8 and 9* is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

> The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 6, 10, 11 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 6, line 1, "the capture device" lacks antecedent basis.

Claim 10, lines 1, 2, "the first arms" lacks antecedent basis.

Claim 11, line 1, "the wire guide" lacks antecedent basis.

Claims 6, 10, 11 are not considered over the prior art because of 35 USC 112 problems.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-5, 12, 13 are rejected under 35 U.S.C. 102(b) as being anticipated by Hennick et al (US 6275388).

Hennick et al disclose a carrier for alignment and attachment of an electronics module (12) to a circuit board (15), the electronics module having a plurality of leads (32) extending therefrom, the carrier comprising:

a frame (14) having a plurality of sides defining a region to receive the electronics module (Fig 1), the frame having a gap between two of the sides for passage of the leads from the electronics module (Fig 1), at least one of the sides having a first surface capable of maintaining contact with a surface of the electronics module when the electronics module is secured to the game, at least one of the sides having a second surface capable of maintaining contact with a first surface of the circuit board when the carrier is secured to the circuit board, the first and second surfaces of the sides being separated by a predetermined distance to position the leads substantially along a second surface of the circuit board (Fig 1); and

a first alignment guide (18) disposed on the frame to align the electronics module to the carrier.

Re claim 2 a second alignment guide (bottom walls) disposed on the frame to align the frame to the circuit board (Figs 1, 3).

Re claim 3, a capture device (33h) disposed on one of the sides of the frame to secure the electronics module to the frame.

Re claim 4, wherein the first surface of the circuit board and the second surface of the circuit board are the same surface (Fig 1).

Re claim 5, wherein at least one of the sides of the frame inherently has an opening to receive a board faster (col. 3, lines 35-40)(Fig 1)

Re claim 12, the frame is made of a plastic material (col. 3, lines 30-31)

Re claim 13, the alignment guide comprises a plurality of alignment posts (18)

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hennick et al.

The teaching as discussed above does not disclose the electronic module being a laser module.

The laser module is well known in the electrical art. It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the laser module for the electronic module of Hennick et al for intended purpose.

Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hennick et al in view of Wever et al (US005805423)

The teaching as discussed above does not disclose the second alignment means comprising a plurality of alignment posts.

Wever et al teach the use of an alignment posts (8, 14) for mounting a circuit board (10). It would have been obvious to one of ordinary skill in the art at the time the invention was made to include the mounting posts with the frame of Hennick et al for the purpose of mounting the circuit board.

Allowable Subject Matter

Claims 8, 9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 15, 16 are allowed.

The following is an examiner's statement of reasons for allowance:

The limitation "a fiber guide extending from one of the sides" in combination with other limitations present is neither taught nor disclosed in the prior art of record.

Communication

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hung V Ngo whose telephone number is (571) 272-1979. The examiner can normally be reached on Monday to Thursday 8:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dean A Reichard can be reached on (571) 272-2800 EXT 31. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

HVN
December 11, 2005

Hung V Ngo

HUNG V. NGO
PRIMARY EXAMINER